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TITLE : SECONDARY BATTERY

ABSTRACT : PURPOSE: To improve cycle life of a battery by mixing monomer which is polymerized by anodic oxidation to electrolyte of secondary battery using polymer obtained by electrolytic oxidation polymerization as electrode.

CONSTITUTION: A monomer which is polymerized by anodic oxidation such as pyrrol, thiophene, aniline is added to electrolyte solution. by adding the monomer, new active material is formed on the surface of electrode in every charging and deterioration of the electrode is compensated. When a lithium negative electrode is used in this system, dendritic growth of lithium on the surface of the lithium electrode is suppressed in addition to prevention of electrode deterioration by active material formed in charging. Therefore, energy density and cycle life are increased.

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